

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2930R1C1

<150> 60/095,325

<151> August 4, 1998

<150> 60/112,851

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<151> October 29, 1999

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<151> March 3, 2000

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<151> June 2, 1999

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 65 70 75
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09866034-052001
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 215 220 225
 Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile Arg
 230 235 240
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Gly Trp Gly Gly Leu Arg Leu Leu Asn Gly Leu Pro Pro Gly Ser

35 40 45

Phe Val Pro Arg Pro His Thr Ala Pro Leu Gly Gly Ala His Ala

50 55 60

His Val Leu Gly Met Val Pro Pro Ala Cys Leu Pro Gly Asp Glu

65 70 75

Val Gly Ser Glu Gln Arg Gly Glu Gln Val Thr Asn Gly Arg Glu

80 85 90

Ala Gly Ala Glu Leu Leu Thr Glu Val Asn Arg Leu Gly Ser Gly

0966034-05601

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Pro Glu Leu Cys Leu Glu Glu Leu Asp Ala Ala Ile Pro Gly Ser		
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Pro Pro Ala Thr Ala Ser Glu Trp Arg Leu Ala Gln Ala Gln Gln		
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Lys Ile Arg Glu Leu Ala Ile Asn Ile Arg Met Lys Glu Glu Leu		
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Ile Gly Glu Leu Val Arg Thr Gly Lys Ala Ala Gln Ala Leu Asn		
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Gln Val Arg Ala Glu Leu Ser Glu Gly Gln Arg Gln Leu Arg Glu		
245	250	255
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Gln Glu Phe Arg Arg Arg Val Ala Ala Ala Gln Ser Gln Val Gln		
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Gln Leu Met Arg Gln Gln Gln Gly Gln Leu Gln Arg Arg Leu Arg		

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Arg Gln His Arg Val Lys Glu Leu Glu Leu Lys His Glu Gln Gln
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Arg Lys Arg Arg Ser Gly Ser Asn Gly Ser Val Val Ser Leu Glu
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395 400 405

Met Glu Lys Val Leu Gln Gln Arg Arg Ala Leu Glu Glu Leu Gly
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Leu Met Gln Glu Lys Thr Gly Leu Glu Ser Lys Arg Leu Arg Ser
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Ser Gln Ala Leu Asn Glu Asp Ile Val Arg Val Ser Ser Arg Leu
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Gln Gly Ser Ala Gln Ser Gln Gln Gln Ile Arg Gly Glu Ile Asp
485 490 495

Ser Leu Arg Gln Glu Lys Asp Ser Leu Leu Lys Gln Arg Leu Glu
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Ile Asp Gly Lys Leu Arg Gln Gly Ser Leu Leu Ser Pro Glu Glu
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Ala Ala Ile Glu Tyr Lys Asn Glu Ala Ile Thr Cys Arg Gln Arg

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Arg Ile Gln Ala Leu Glu Lys Glu Leu Gly Arg Tyr Met Trp Ile		
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770 775 780

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785 790 795

Val Gly Glu Ala Gly Leu Pro Trp Asn Phe Gly Pro Leu Ser Lys
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35 40 45

Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile

50 55 60

Leu Ser Leu Lys Glu Thr Arg Arg Cys Gly Ser Thr Cys Thr Phe

65 70 75

Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln

80 85 90

Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln

95 100 105

Cys His Leu Ser Pro Ile Ser Arg Ser Cys Thr Arg Asn Arg Arg

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His Val Leu Tyr Pro

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 35 40 45

Glu Lys Arg Glu His Ala Thr Arg Asp Gly Pro Gly Arg Val Asn
 50 55 60

Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys
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His Cys Thr Tyr Glu Glu Gly Thr Trp Arg Ile Glu Arg Gln Ala
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Met Cys Thr Arg His Glu Cys Arg Gln Met
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10550-409860

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<213> Homo sapiens

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His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys
 35 40 45

Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
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Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
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Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
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Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
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Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
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Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
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Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
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Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
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Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
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Gln Asn Ser Gln Lys Thr Thr Ile His Ser Ala Pro Pro Gly Val
275 280 285

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Ser Ala Ser Ser Ser Ser Val Leu Leu Asn Ser Leu Pro Pro Gln
305 310 315

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Arg Gly Ala Thr His Cys Tyr Asp Gly Tyr Ile His Leu Ser Gly
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Gly Gly Leu Ser Thr Lys Met Ser Ile Gln Gly Cys Val Ala Gln
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Pro Ser Ser Phe Leu Leu Asn His Thr Arg Gln Ile Gly Ile Phe
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Ser Ala Arg Glu Lys Arg Asp Val Gln Pro Pro Ala Ser Gln His
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Lys Asn Ala Thr Ala Leu Tyr His Val Glu Ala Phe Lys Thr Gly		
245	250	255
Pro Glu Met Gln Asn Ile Leu Lys Lys Val Ala Ala Thr Leu Gln		
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Val Pro Val Asn Asp Leu Asn Ala Asp Leu Ile Gln Val Ala Phe		
275	280	285
Phe Thr Cys Ser Phe Asp Leu Ala Ile Lys Gly Val Lys Ser Pro		
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Leu Asn Asp Leu Lys Gln Tyr Trp Lys Arg Gly Tyr Gly Tyr Thr		
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Ile Asn Ser Arg Ser Ser Cys Thr Leu Phe Gln Asp Ile Phe Gln		
335	340	345
His Leu Asp Lys Ala Val Glu Gln Lys Gln Arg Ser Gln Pro Ile		
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Ser Ser Pro Val Ile Leu Gln Phe Gly His Ala Glu Thr Leu Leu		
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Pro Leu Leu Ser Leu Met Gly Tyr Phe Lys Asp Lys Glu Pro Leu		
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395	400	405
Gly Leu Ile Val Pro Tyr Ala Ser Asn Leu Ile Phe Val Leu Tyr		
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His Cys Glu Asn Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln		

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Thr Val Ser Phe Tyr Glu Asp Leu Lys Asn His Tyr Lys Asp Ile
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Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val		
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Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val		
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Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly		
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His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu		
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Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val		
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Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly		
260	265	270
Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro		
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Ser Pro Glu Gln Pro Ile Gly Gln Gly Arg Ile Arg Val Gly Thr
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Gln Leu Arg Val Leu Gly Pro Glu Asp Asp Leu Ala Gly Met Phe
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Leu Gln Ile Phe Pro Leu Ser Pro Asp Pro Arg Trp Gln Ser Ser
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Ser Pro Arg Pro Val Ala Leu Ala Leu Gln Gln Ala Leu Gly Gln
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Glu Leu Ala Arg Val Val Gln Gly Ser Pro Glu Val Pro Gly Ile
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Thr Val Arg Val Leu Gln Ala Leu Ala Thr Leu Leu Ser Ser Pro
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His Gly Gly Ala Leu Val Met Ser Met His Arg Ser His Phe Leu
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Ala Cys Pro Leu Leu Arg Gln Leu Cys Gln Tyr Gln Arg Cys Val
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Thr Ala Asp Ala Ala Ser Pro Phe Pro Ala Cys Lys Pro Val Val
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Val Val Ser Ser Leu Leu Leu Gln Glu Glu Glu Pro Leu Ala Gly
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Thr Leu His Gln Cys Ile Arg Val Leu Leu Gly Lys Ser Arg Glu
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Gln Arg Phe Asp Pro Ser Ala Ser Leu Asp Phe Leu Trp Ala Cys
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Ile His Val Pro Arg Ile Trp Gln Gly Arg Asp Gln Arg Thr Pro
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Gln Lys Arg Arg Glu Glu Leu Val Leu Arg Val Gln Gly Pro Glu
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Leu Ile Ser Leu Val Glu Leu Ile Leu Ala Glu Ala Glu Thr Arg
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Ser Gln Asp Gly Asp Thr Ala Ala Cys Ser Leu Ile Gln Ala Arg
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Leu Pro Leu Leu Leu Ser Cys Cys Cys Gly Asp Asp Glu Ser Val
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Arg Lys Val Thr Glu His Leu Ser Gly Cys Ile Gln Gln Trp Gly
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Asp Ser Val Leu Gly Arg Arg Cys Arg Asp Leu Leu Leu Gln Leu
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Tyr Leu Gln Arg Pro Glu Leu Arg Val Pro Val Pro Glu Val Leu
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Leu His Ser Glu Gly Ala Ala Ser Ser Ser Val Cys Lys Leu Asp
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Gly Leu Ile His Arg Phe Ile Thr Leu Leu Ala Asp Thr Ser Asp
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Ser Arg Ala Leu Glu Asn Arg Gly Ala Asp Ala Ser Met Ala Cys
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Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg His Leu
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Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn Phe
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Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val
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Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu
755 760 765

His Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu
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Leu Leu Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile
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Asn Lys Phe Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala
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Pro Ala Ala Ile Ser Phe Leu Gln Lys His Ala Asp Pro Leu His
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Asp Leu Ser Phe Asp Asn Ser Asp Leu Val Met Leu Lys Ser Leu
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Leu Ala Gly Leu Ser Leu Pro Ser Arg Asp Asp Arg Thr Asp Arg
845 850 855

Gly Leu Asp Glu Glu Gly Glu Glu Glu Ser Ser Ala Gly Ser Leu
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Pro Leu Val Ser Val Ser Leu Phe Thr Pro Leu Thr Ala Ala Glu
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Met Ala Pro Tyr Met Lys Arg Leu Ser Arg Gly Gln Thr Val Glu
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Asp Leu Leu Glu Val Leu Ser Asp Ile Asp Glu Met Ser Arg Arg
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Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn Leu Gln Arg Leu
920 925 930

Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala Phe Ser Leu
935 940 945

Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala Ala Phe
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Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu Val
965 970 975

Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys
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Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly
995 1000 1005

Met Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu
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Arg Ile Leu His Met Glu Ala Val Met
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2

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Leu Leu Glu Val Ile Ser Pro Ser Pro His Phe Tyr Pro Asp Phe		
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Ser Arg Leu Arg Glu Ser Phe Gly Asp Pro Lys Glu Arg Val Arg		
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Trp Arg Thr Lys Gln Asn Leu Asp Tyr Cys Phe Leu Met Met Tyr		
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Ala Gln Ser Lys Gly Ile Tyr Tyr Val Gln Leu Glu Asp Asp Ile		
260	265	270
Val Ala Lys Pro Asn Tyr Leu Ser Thr Met Lys Asn Phe Ala Leu		
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Gln Gln Pro Ser Glu Asp Trp Met Ile Leu Glu Phe Ser Gln Leu		
290	295	300
Gly Phe Ile Gly Lys Met Phe Lys Ser Leu Asp Leu Ser Leu Ile		
305	310	315
Val Glu Phe Ile Leu Met Phe Tyr Arg Asp Lys Pro Ile Asp Trp		
320	325	330
Leu Leu Asp His Ile Leu Trp Val Lys Val Cys Asn Pro Glu Lys		
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Asp Ala Lys His Cys Asp Arg Gln Lys Ala Asn Leu Arg Ile Arg		
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365	370	375
Ala Gly Lys Ile Gln Lys Leu Lys Asp Lys Asp Phe Gly Lys Gln		
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Ser Leu Lys Thr Tyr Gln His Phe Thr Leu Glu Lys Ala Tyr Leu		

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Arg Glu Asp Phe Phe Trp Ala Phe Thr Pro Ala Ala Gly Asp Phe
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Ile Arg Phe Arg Phe Phe Gln Pro Leu Arg Leu Glu Arg Phe Phe
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Phe Arg Ser Gly Asn Ile Glu His Pro Glu Asp Lys Leu Phe Asn
455 460 465

Thr Ser Val Glu Val Leu Pro Phe Asp Asn Pro Gln Ser Asp Lys
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Glu Ala Leu Gln Glu Gly Arg Thr Ala Thr Leu Arg Tyr Pro Arg
485 490 495

Ser Pro Asp Gly Tyr Leu Gln Ile Gly Ser Phe Tyr Lys Gly Val
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Ala Glu Gly Glu Val Asp Pro Ala Phe Gly Pro Leu Glu Ala Leu
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